

Title: ' US-09-988-201-5

RESULT 1

ACCGKAB

LOCUS ACCGKAB 2180 bp DNA linear BCT 21-APR-1994

DEFINITION A.carrageenovora genes cgkA and cgkB, partial.

ACCESSION X71620

VERSION X71620.1 GI:437973

KEYWORDS kappa-carrageenase.

SOURCE Pseudoalteromonas carrageenovora

ORGANISM Pseudoalteromonas carrageenovora

Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales;

Alteromonadaceae; Pseudoalteromonas.

REFERENCE

1

AUTHORS Barbeyron, T., Henrissat, B. and Kloareg, B.

TITLE The gene encoding the kappa-carrageenase of Alteromonas

carrageenovora is related to beta-1,3-1,4-glucanases

JOURNAL Gene 139 (1), 105-109 (1994)

MEDLINE 94156170

PUBMED 8112578

REFERENCE 2 (bases 1 to 2180)

AUTHORS Barbeyron, T.

TITLE Direct Submission

JOURNAL Submitted (15-APR-1993) T. Barbeyron, CNRS, Place George Teissier,

29680 Roscoff, FRANCE

FEATURES

Location/Qualifiers

source

1. .2180

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/db_xref="taxon:227"

/clone="pKA1,pKA2,pKA3,pKA4"

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-10_signal

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RBS

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CDS

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gene

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RBS

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BASE COUNT 787 a 397 c 420 g 576 t
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 2180; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db     61  AAAGCTGACAAAGGGAGTGTGAGCAGGCAAGTACACCCACCTTGGCCTGTGCCTTGTA 120

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Db    121  AGTAAACTGCAAGAGCAAGATAGTAGTGAGTCTAAAGAGAGTAAGGCAGAGCAAGTTAA 180

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Db    181  ATTAACAACTGCGTTGTACAGAACGCAATGCTGTACATAGAAAACAATTATTTCAACGAT 240

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Db    241  ATAAATATAGACACGGTTGCTTTTTCTGTTGGCGTAAGTCGCTCTTATCTCGTTAAACAA 300

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Db    301  TTTAAGTTAGCAACGAATAAAACGATTAATAATAGAATCATAGAAGTAAGAATAGAGCAG 360

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Qy	1141	GTACATTTCTGGCGTATCGCCTGCTTTTTGGATGTATAGCACCATTGACCGTTCATTAA	1200
Db	1141	GTACATTTCTGGCGTATCGCCTGCTTTTTGGATGTATAGCACCATTGACCGTTCATTAA	1200
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Db	1201	CGAAAGAAGGGGATGTCCAATATAGCGAAATAGACGTAGTGGAACCTACTCAAAAAAGTG	1260
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Qy	1981	TCTCAGGCTTCGACTTTTTGGAGGGGGTATGAAAAAGGTAAATTTATCCAGCAAGTGGAT	2040
Db	1981	TCTCAGGCTTCGACTTTTTGGAGGGGGTATGAAAAAGGTAAATTTATCCAGCAAGTGGAT	2040

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Db	2041	AATTAGCATTAGTTTACTAATCATTGTGATTATGTTTATTTAATACGAACAAACGTTAA	2100
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RESULT 1
I39507
kappa-carraghenase - Alteromonas carrageenovora
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C;Date: 19-Jul-1996 #sequence_revision 19-Jul-1996 #text_change 08-Oct-1999
C;Accession: I39507; S40202
R;Barbeyron, T.; Henrissat, B.; Kloareg, B.
Gene 139, 105-109, 1994
A;Title: The gene encoding the kappa-carrageenase of Alteromonas carrageenovora is related to beta-1,3-1,4-glucanases.
A;Reference number: I39507; MUID:94156170; PMID:8112578
A;Accession: I39507
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-397 <RES>
A;Cross-references: EMBL:X71620; NID:g437973; PIDN:CAA50624.1; PID:g437974
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Query Match 64.9%; Score 2116; DB 2; Length 397;
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Matches 397; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	227	TENYGVWSWKNNENATVSNGLKLTTKRESHQRTFWDGCNQQQVANYPLYTSGVAKSRAT	286
Db	61	TENYGVWSWKNNENATVSNGLKLTTKRESHQRTFWDGCNQQQVANYPLYTSGVAKSRAT	120
Qy	287	GNYGYYEARIKGASTFPGVSPAFWMYSTIDRSLTKEGDVQYSEIDVVELTQKSAVRES DH	346
Db	121	GNYGYYEARIKGASTFPGVSPAFWMYSTIDRSLTKEGDVQYSEIDVVELTQKSAVRES DH	180
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Qy	407	EKDONLYWHRQMNLTLSQLRAPHTQWKCNQFYPSANKSAEGFPTSMEVDYVRTWVKVGNN	466
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Qy	527	ATVNSAGVVKAKNKG TATITVKTKNKGKIDKLTIAVN	563
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